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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,635	05/02/2005	Thomas Kucgler	. 3188	6322
Striker Striker	7590 07/12/2007 & Stenby		EXAMINER	
103 East Neck Road			GORMAN, DARREN W	
Huntington, NY	( 11/43		ART UNIT	PAPER NUMBER
			3752	
	•		MAIL DATE	DELIVERY MODE
ř		•	07/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/533,635	KUEGLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Darren W. Gorman	3752				
The MAILING DATE of this communication app Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. vely filed the mailing date of this co (35 U.S.C. § 133).	,			
Status						
Responsive to communication(s) filed on <u>21 M</u> .      This action is <b>FINAL</b> . 2b)⊠ This      Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro		merits is			
Disposition of Claims						
4) ⊠ Claim(s) 10-13 and 16 is/are pending in the ap 4a) Of the above claim(s) is/are withdrav 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 10 and 16 is/are rejected. 7) ⊠ Claim(s) 11-13 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 21 May 2007 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	☐ accepted or b)☒ objected to b drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	•			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No d in this National	Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 06/01/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

## **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's cancellation of claims 1-9, 14, 15 and 17 in the amendment filed 21 May 2007 is acknowledged. Claims 10-13 and 16 remain pending. It is noted that none of the claims previously withdrawn from consideration as being drawn to a nonelected species remain pending in the instant application.

# Information Disclosure Statement

2. The IDS filed on 01 June 2007 is hereby acknowledged and has been placed of record. Please find attached a signed and initialed copy of the PTO 1449.

### **Drawings**

3. The replacement drawing sheets for Figures 1 and 2 were received on May 21, 2007. These replacement drawing sheets are not acceptable. Applicant filed drawing sheets labeled as "Replacement Sheets", however these "replacement" sheets are actually annotated marked-up sheets showing proposed changes, rather than actual clean replacement sheets. Re-submitting clean replacement sheets adopting the proposed changes of the annotated marked-up sheets would be acceptable for overcoming the drawing objections set forth in the office action mailed December 28, 2006.

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4. The indicated allowability of claims 10-13 and 16 is regretfully withdrawn in view of the newly discovered reference to Lambert (USPN 6,378,503). A rejection based on the newly cited

reference follows.

Claim Objections

5. Claim 12 is objected to because of the following informalities: On line 3 of claim 12, the recitation, "the conical valve seat" does not have clear antecedent basis, since the valve seat of the claimed injection valve has not yet been limited to one which is "conical".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 10 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Lambert, USPN 6,378,503.

Lambert shows a fuel injector (see Figures 1-3) having a valve body (10) in which a bore (11) is embodied that is defined on its end toward a combustion chamber by a valve seat at which at least one injection opening (18) originates, and having a hollow valve needle assembly (12a, 12b, 34), which is located longitudinally displaceably in the bore and which has a valve sealing

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face (lower end of needle elements 12a, 12b and 34) on its end oriented toward the valve seat, wherein a first sealing region (region of the hollow needle assembly facing seat portion 14) and a second sealing region (region of the hollow needle assembly facing seat portion 36) are embodied on the valve sealing face, and the hollow valve needle cooperates with the valve seat in such a way that upon contact of the hollow valve needle with the valve seat, the first sealing region upstream of the at least one injection opening and the second sealing region downstream of that injection opening effect sealing between the valve sealing face and the valve seat, wherein the valve sealing face has a first conical face (lower end defining the sealing face of element 12b), a second conical face (lower end defining the sealing face of element 34) located downstream of the first conical face, and a third conical face (lower end defining the sealing face of element 12a) located downstream of the second conical face, and wherein a valve needle (20) is located longitudinally displaceably in the hollow valve needle and controls the opening of at least one further injection opening (28), which originates at the valve seat (see again Figures 1-3; and see column 3, line 44 through column 4, line 26).

### Allowable Subject Matter

- 8. Claims 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements set forth above under paragraphs 3 and 5 of this office action, or

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specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP

§ 707.07(a).

Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Darren W. Gorman whose telephone number is 571-272-4901.

The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Darren W Gorman

Examiner

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